



DEPARTMENT OF THE AIR FORCE
27TH SPECIAL OPERATIONS CIVIL ENGINEER SQUADRON (AFSOC)
CANNON AIR FORCE BASE NEW MEXICO

ENTERED



OCT 21 2009

Mr. Ronald A. Lancaster
Chief, Asset Management
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506 N DL Ingram Blvd
Cannon AFB NM 88103-5003

Ms. Patricia Stewart
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East – Building 1
Santa Fe NM 87505-6063

Dear Ms. Stewart

The purpose of this letter serves as a revised addendum to the Site ST-26 (SWMU 48A) and AOC 36 Corrective Measures Implementation (CMI) Work Plan (WP), Cannon Air Force Base, New Mexico (URS 2007) in response to New Mexico Environment Department (NMED) 6 February 2009 comments and subsequent letter dated 28 September 2009 regarding historical TPH contamination detected in 1994. The additional fieldwork described in this letter will be implemented to complete the CMI process at Site ST-26. Except as noted in this letter addendum, the entire CMI WP should be incorporated by reference.

This letter CMI WP Addendum (revised) proposes further investigation at Site ST-26 by trenching to more thoroughly examine and document subsurface soil conditions in the area of 1994 boring 4806, where elevated TPH concentrations were reported (see attached **Figure 1**). An excavator will dig a trench to a depth between 15 and 20 feet below ground surface (bgs) at the location shown on **Figure 2**. The excavator will be positioned a safe distance from the trench to prevent collapse, and barricades or warning lines will be used to keep personnel outside of the swing radius of the excavator and away from the edges of the trench. At no time during the excavation process will any personnel enter the excavated trench. The excavator bucket will be used to obtain lithologic soil samples from the walls and floor of the trench. A trench log will be completed to thoroughly describe the lithology of the excavated area and to record the Unified Soil Classification characteristics of the excavated materials. A qualified person (e.g., geologist, geological engineer, or geotechnical engineer) will document the excavation, the soil lithology, and collect and log soil samples directly from the excavator bucket. The breathing zone will be monitored and soil samples will be field screened using a photoionization detector (PID).

Excavation will proceed until field observations (e.g., visual evidence, PID readings, etc.) indicate that the extent of petroleum-impacted soil has been fully delineated. If no evidence of contamination is encountered upon reaching the limits shown on **Figure 2** (approximately 4 feet by 7 feet) and a minimum depth of 15 feet bgs, excavation activities will cease. Confirmatory soil samples will be collected from the walls and floor of the open excavation and analyzed for

Air Commandos

diesel range organics (DRO), oil range organics (ORO), gasoline range organics (GRO), and the other constituents listed in Table 3 of NMED's TPH Guidance (October 2006) in order to determine the presence or absence of potential soil contamination remaining at the site. If sample results indicate the presence of contamination, the excavation will be expanded in the appropriate direction and additional confirmatory samples will be collected.

If sample results indicate that the excavated soils require off-site disposal and/or treatment (e.g., soil concentrations exceed the NMED TPH Screening Level for unknown oil), they will be transported to a landfill or a land treatment facility licensed to accept TPH-containing wastes in accordance with the procedures described in Section 6 of the CMI WP (URS 2007). The Air Force plans to use the residential screening level for unknown oil (800 mg/kg) as cleanup criteria; however, we reserve the right to use the industrial screening level for unknown oil (2,000 mg/kg) as cleanup criteria, given Site ST-26's industrial setting, with the understanding that if industrial numbers are used, the site may require some type of land use control.

Excavated soils with no contamination or contamination less than TPH Screening Levels and other applicable NMED Soil Screening Levels will be treated as overburden and used as backfill. Contaminated soils above Screening Levels will not be used as backfill. Supplemental backfill will be imported as necessary, and the site will be restored and repaved to match the existing grade. The results of the CMI Addendum activities will be documented in an addendum to the CMI Site Closure Report.

If you have any questions, please contact Mr. Hugh G. Hanson, Asset Management Flight, at 575-784-6031 (temporary).

Sincerely

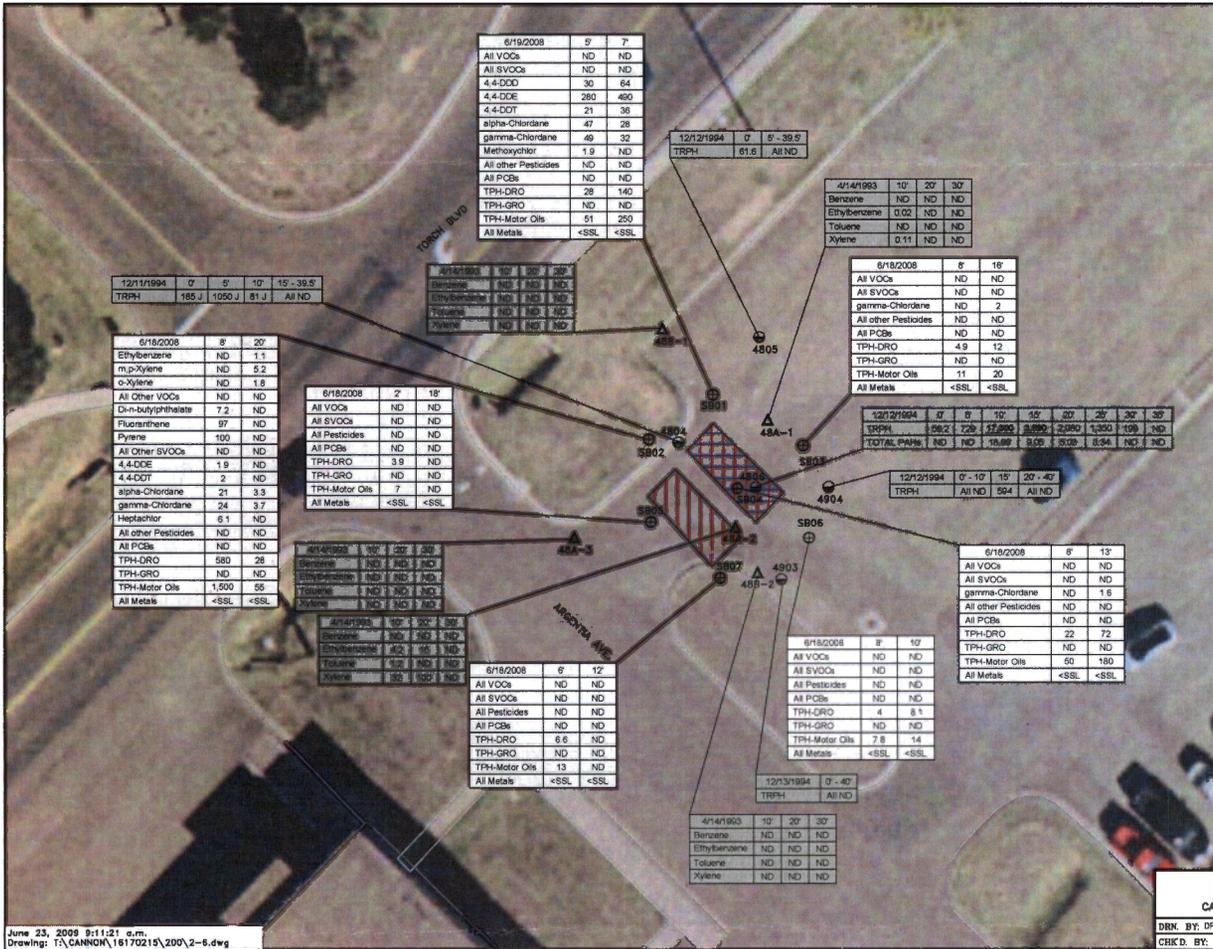
A handwritten signature in blue ink, appearing to read "Ronald A. Lancaster", with a large, sweeping flourish at the end.

Ronald A. Lancaster, YC-03

cc:

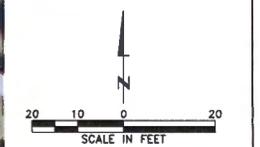
NMED (D. Cobrain) w/o documents

EPA Region 6 (Bob Sturdivant) w/o documents



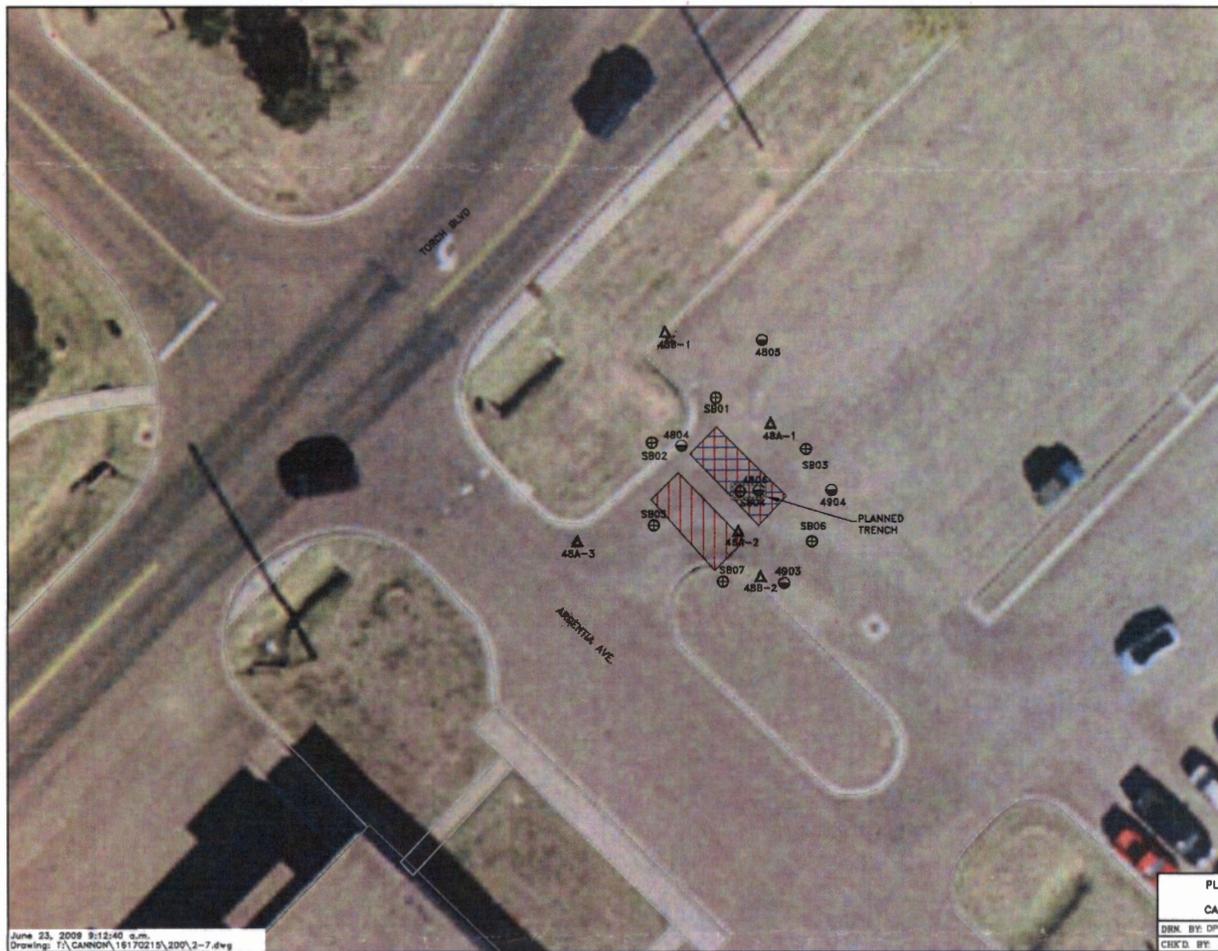
- LEGEND:**
- APPROXIMATE LOCATION OF FORMER ABOVEGROUND STORAGE TANK (ABOVE UST)
 - APPROXIMATE LOCATION OF FORMER UNDERGROUND STORAGE TANK
 - 4904 PHASE II SOIL BORING LOCATION AND NUMBER
 - 49A-1 PHASE I SOIL BORING LOCATION AND NUMBER
 - SB01 2008 CMI BORING LOCATION AND NUMBER
 - ND SAMPLE RESULT(S) DID NOT EXCEED DETECTION LIMITS
 - 17,800 VALUE EXCEEDS NAMED SSL
 - <SSL SAMPLE RESULT(S) DID NOT EXCEED RESIDENTIAL SOIL SCREENING LEVELS

NOTE:
 THE LOCATION OF PHASE I BORINGS 48B-1 AND 48B-2 ARE APPROXIMATE SINCE THEY WERE NOT LOCATED DURING THE JUNE 2005 SITE VISIT
 TPH AND TOTAL PAH CONCENTRATIONS COMPARED TO NMED TPH SCREENING LEVEL FOR WASTE OIL (2,500 mg/kg)
 TPH AND METALS RESULTS IN mg/kg. ALL OTHER RESULTS IN µg/kg.
 THE RESULTS IN GRAY BOXES WERE OBTAINED FROM HISTORICAL SAMPLING EVENTS.

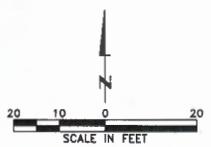


SOIL SAMPLING RESULTS			
SITE ST-26 (SWMU 48A)			
CANNON AIR FORCE BASE, NEW MEXICO			
DRW. BY: DPG	DATE: 06/23/09	PROJECT NO.:	FIG. NO.:
CHKD. BY:	REVISION: 0	18170215	1

June 23, 2009 8:11:21 a.m.
 Drawing: I:\CANNON\18170215\2009_2-6.dwg



- LEGEND:**
-  APPROXIMATE LOCATION OF FORMER ABOVEGROUND STORAGE TANK (ABOVE UST)
 -  APPROXIMATE LOCATION OF FORMER UNDERGROUND STORAGE TANK
 -  PLANNED TRENCH LOCATION
 -  4904 PHASE II SOIL BORING LOCATION AND NUMBER
 -  49A-1 PHASE I SOIL BORING LOCATION AND NUMBER
 -  SB01 2005 CMI BORING LOCATION AND NUMBER
- NOTE:**
 THE LOCATION OF PHASE I BORINGS 48B-1 AND 48B-2 ARE APPROXIMATE SINCE THEY WERE NOT LOCATED DURING THE JUNE 2005 SITE VISIT



June 23, 2009 3:15:40 a.m.
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PLANNED SUPPLEMENTAL INVESTIGATION SITE ST-26 (SWMU 48A) CANNON AIR FORCE BASE, NEW MEXICO			
DRN. BY: DPC	DATE: 06/23/09	PROJECT NO.: 16170215	FIG. NO.: 2
CHEK'D. BY:	REVISION: 0		